100

Computer monitor — 101

Memory   CPU   Storage — 110

130

Mouse

113   114   115

Computer keyboard — 120

Fig 1

200

101

201

Travel Survey

Home Address ← 202

What is your home address?

203

204 Answer:

210

| BACK | OKAY | MAP | CLEAR |

221   222   223   224

Fig 2

300 301 302 303

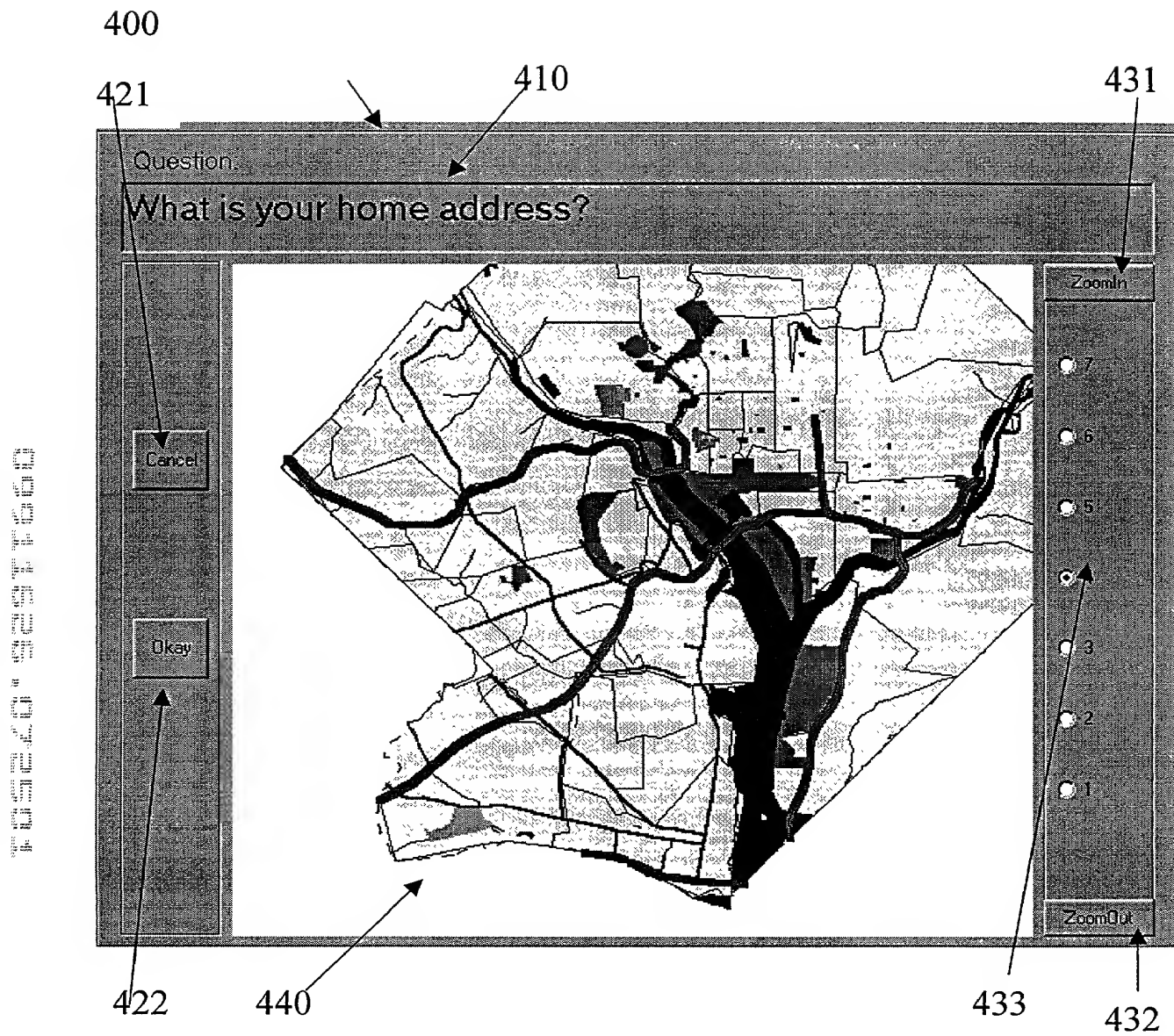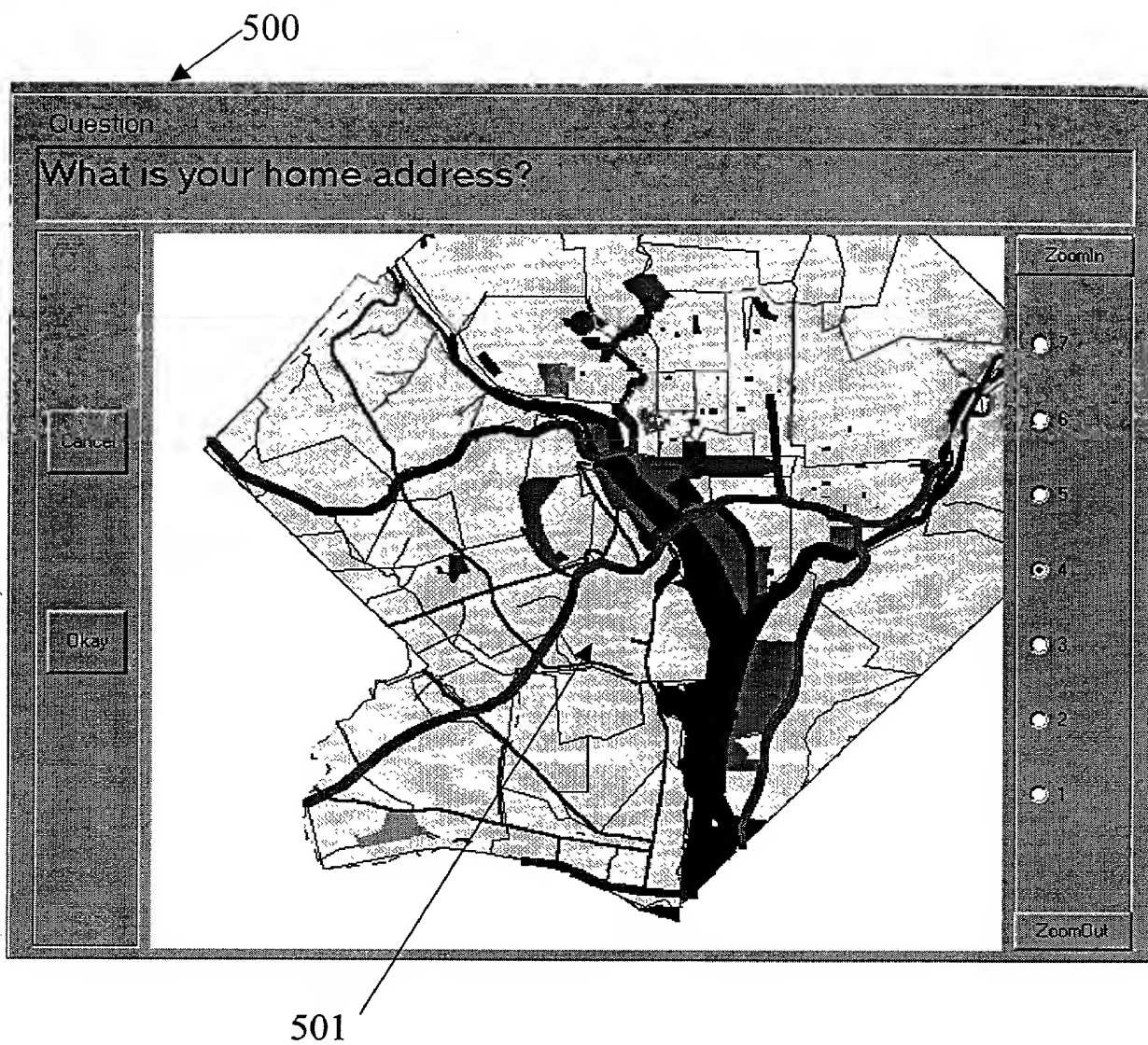| FieldName	Attribute	Field Description
Lat	N(10,4)	Degrees of Latitude
Lng	N(10,4)	Degrees of Longitude
Proximity	N(10,4)	Proximity measure (radius of circle around Lat, Lng
Units	Character(12)	Units of Proximity (e.g. Feet, Meters, Miles, etc.)
Location	Character(255)	AlphaNumeric entered location (e.g. Street Address, City, State)

311
312
313
314
315

Fig 3

Fig 4

500

Question

What is your home address?

ZoomIn

Cancel

Okay

ZoomOut

501

Fig 5

600

Question

What is your home address?

Zoomin

Cancel

Okay

7

6

5

4

3

2

1

ZoomOut

601

602

Fig 6

700

PRIOR_QUESTION
710

Back 725

720

Clear
722

DISPLAY_LOCATION
_QUESTION

Keyentry
721

GeoCode failed
731

Okay 723

Map 724

ZoomIn 741

Cancel 743

GEOCODE

ZoomOut
742

DISPLAY_
MAP **740**

GeoCode successful
732

Okay 746

Set
location
744

NEXT_
QUESTION
750

Set location,
proximity
745

Fig 7

Fig 8 (1 of 2)
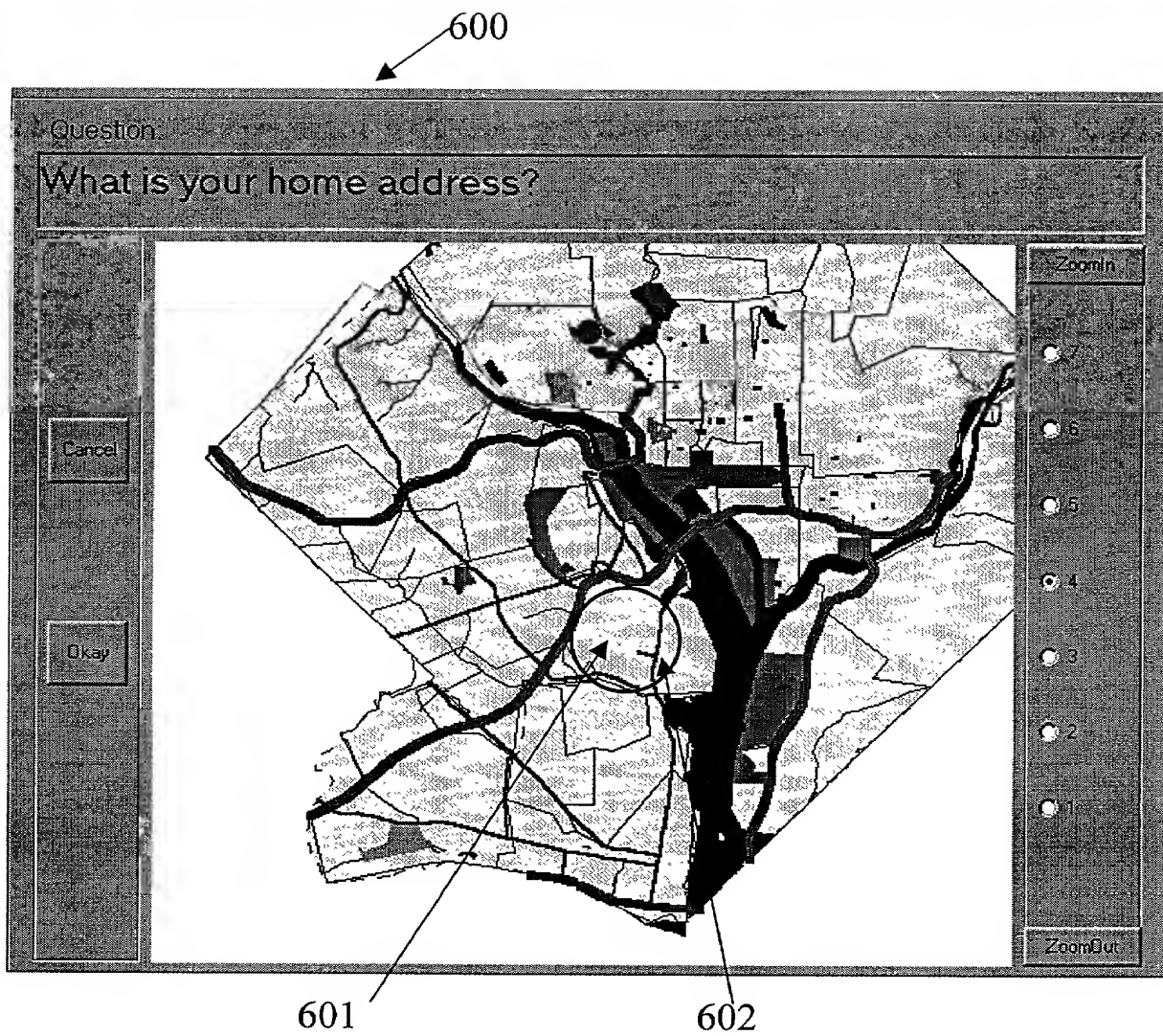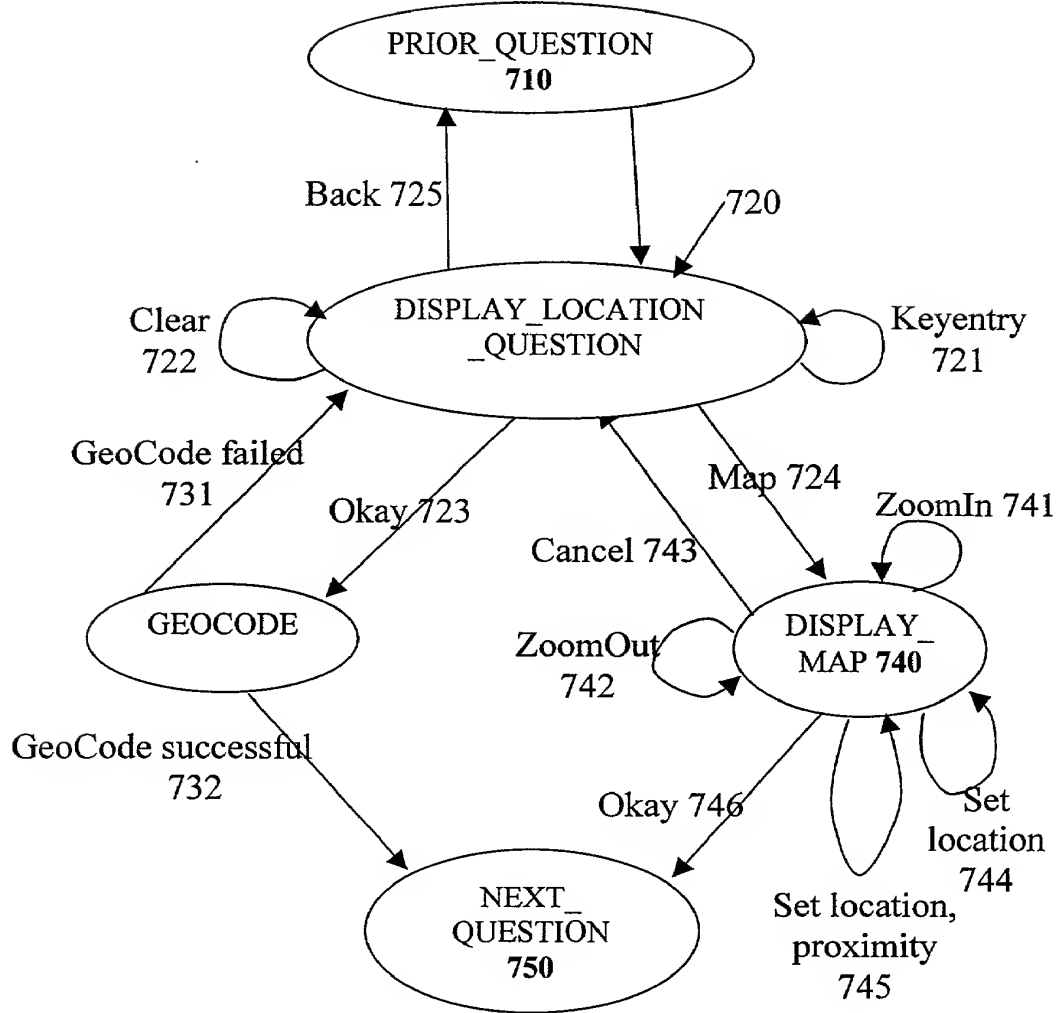
800

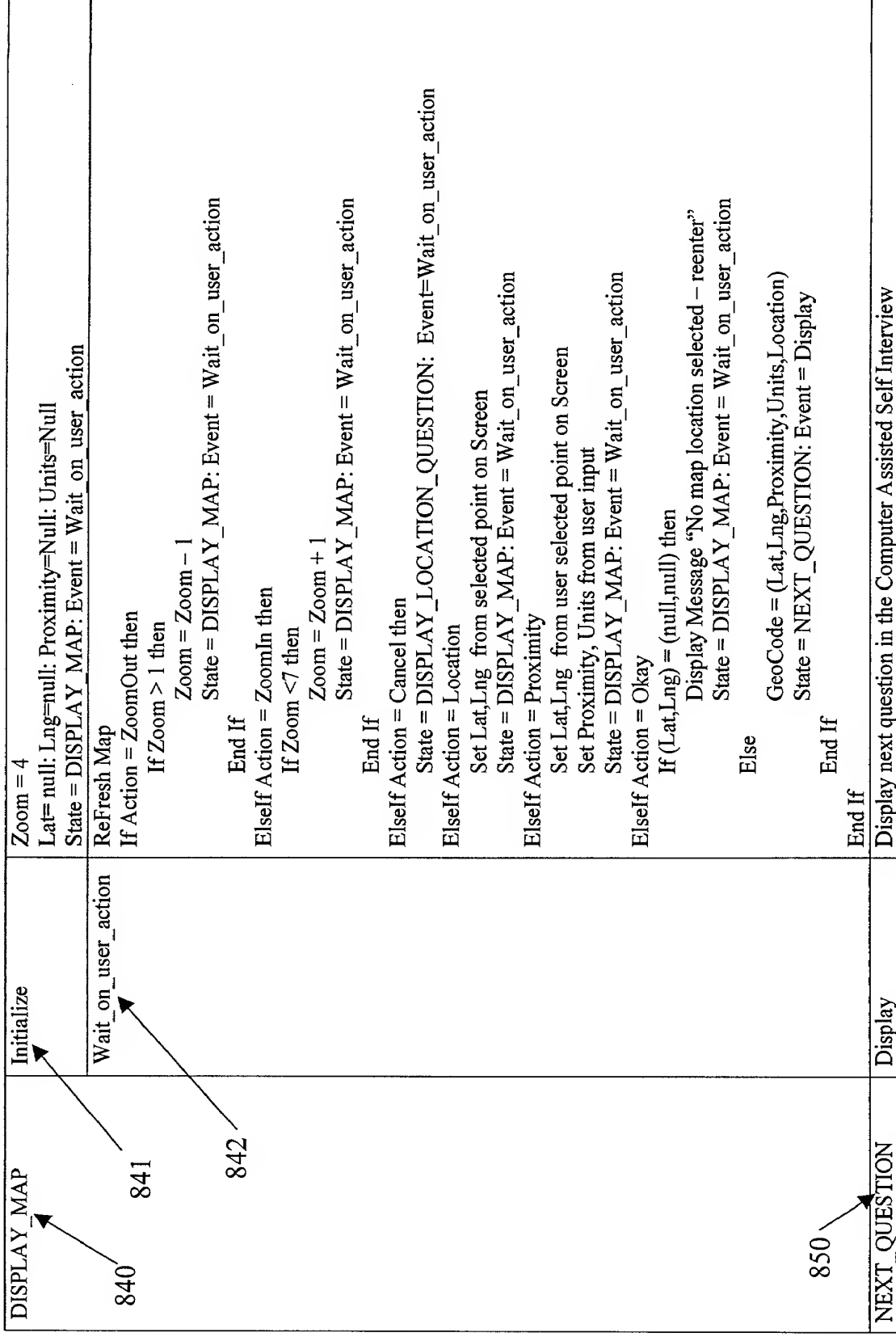| State	Event	Processing
PRIOR_QUESTION		State = DISPLAY_LOCATION_QUESTION: Event = Initialize
DISPLAY_LOCATION_QUESTION	Initialize	Set GeoCode=(null,null,null,null) Display location question Set Location = null State = DISPLAY_LOCATION_QUESTION: Event=Wait_on_user_action

	Wait_on_user_action	Refresh Location Question Screen
		 If Action = KeyEntry then
		   Append KeyEntered to Location
		   State = DISPLAY_LOCATION_QUESTION: Event=Wait_on_user_action
		 ElseIf Action = Clear then
		   Location = null
		   State = DISPLAY_LOCATION_QUESTION: Event=Wait_on_user_action
		 ElseIf Action = Okay
		   If Location = null then
		     Display Message "No location entered – reenter"
		     State = DISPLAY_LOCATION_QUESTION:
		     Event=Wait_on_user_action
		   Else
		     State = GEOCODE: Event = GeoCode
		   End If
		 ElseIf Action = Map then
		   State = DISPLAY_MAP: Event = Initialize
		 ElseIf Action = BACK then
		   State = PRIOR_QUESTION
		 End If

GEOCODE	GeoCode	Response = Call Geocode software for entry in Location variable
		 If Response = Failed then
		   Display Message "Illegal location specified – retry"
		   State = DISPLAY_LOCATION_QUESTION: Event=Initialize
		 Else
		   GeoCode=(lat,lng,null,null,location)
		   State = NEXT_QUESTION: Event = Display
		 End If

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DISPLAY_MAP	Initialize	Zoom = 4 Lat= null: Lng=null: Proximity=Null: Units=Null State = DISPLAY_MAP: Event = Wait_on_user_action

	Wait_on_user_action	ReFresh Map
		If Action = ZoomOut then
		  If Zoom > 1 then
		    Zoom = Zoom – 1
		    State = DISPLAY_MAP: Event = Wait_on_user_action
		  End If
		ElseIf Action = ZoomIn then
		  If Zoom <7 then
		    Zoom = Zoom + 1
		    State = DISPLAY_MAP: Event = Wait_on_user_action
		  End If
		ElseIf Action = Cancel then
		  State = DISPLAY_LOCATION_QUESTION: Event=Wait_on_user_action
		ElseIf Action = Location
		  Set Lat,Lng from selected point on Screen
		  State = DISPLAY_MAP: Event = Wait_on_user_action
		ElseIf Action = Proximity
		  Set Lat,Lng from user selected point on Screen
		  Set Proximity, Units from user input
		  State = DISPLAY_MAP: Event = Wait_on_user_action
		ElseIf Action = Okay
		  If (Lat,Lng) = (null,null) then
		    Display Message "No map location selected – reenter"
		    State = DISPLAY_MAP: Event = Wait_on_user_action
		  Else
		    GeoCode = (Lat,Lng,Proximity,Units,Location)
		    State = NEXT_QUESTION: Event = Display
		  End If
		End If

NEXT_QUESTION	Display	Display next question in the Computer Assisted Self Interview

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Fig 8 (2 of 2)